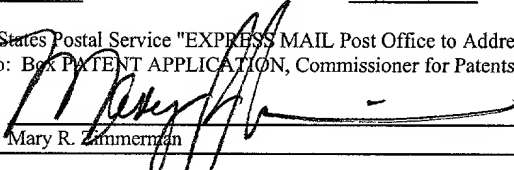


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Mary R. Zimmerman

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application for:

Edward R. FYFE

Examiner: Not yet assigned

Serial No.: Not yet assigned

Group Art Unit: Not yet assigned

Filing Date: August 2, 2001

For: **STAY-IN-PLACE FORM**

**PRELIMINARY AMENDMENT**

Box Patent Application  
Commissioner for Patents  
Washington, DC. 20231

Sir:

Prior to examination of the above-identified application, which is a divisional of application serial number 09/330,643 filed on June 11, 1999, Applicant requests the following amendments and cancelation of claims 1 through 24 be entered.

**IN THE SPECIFICATION:**

Please add the following heading and paragraph at page 1, after the title and before the first heading:

**--CROSS REFERENCE TO RELATED APPLICATIONS**

This application is a divisional of and claims the benefit of U.S. Application No. 09/330,643, filed June 11, 1999, the disclosure of which is incorporated herein by reference.--

Please replace the paragraph beginning at page 4, line 24, with the following rewritten paragraph:

--Composite shell 101 is formed of a resin-impregnated composite reinforcement layer 107, as illustrated in Fig. 1. Composite reinforcement layer 107 is in direct contact with the outer surface of liner 103 and may be made of a single layer of fabric, although typically reinforcement layer 107 is made up of multiple layers of fabric. In the exemplary embodiment illustrated in Fig. 1, composite reinforcement layer 107 is made of seven fabric layers 109-115. Each of fabric layers 109-115 has first and second parallel selvages. For example, the first and second selvages for fabric layer 109 are shown at 109A and 109B, respectively. The first and second selvages for fabric layer 110 are shown at 110A and 110B, respectively. In an exemplary embodiment, the width of the fabric between the selvages may be from twelve to one hundred inches wide. Fabric layers 109-115 may include a single fabric layer or they may be laminates made up of two or more layers of fabric.—

Please replace the paragraph beginning at page 7, line 16, with the following rewritten paragraph:

--Liner 103 is received to the inner wall surface of hollow composite shell 101. A perspective view of liner 103 is illustrated in Fig. 7. As shown, liner 103 is flexible so that it will conform to the inner wall surface of composite shell 101 regardless of the shape of the shell 101. Referring again to Fig. 2, liner 103 is formed of a water-resistant and impermeable material to protect concrete core 205 from moisture and corrosive materials, as well as to protect the composite shell 101 from the alkalinity in concrete core 205. Liner 103 can be fabricated from plastic or rubber materials such as polystyrene, vinyl, polyethylene, chlorosulfonated polyethylene, such as HYPALON, synthetic rubber, such as NEOPRENE, EPDM (ethylene-propylene-diene terpolymer), rubber, or other resistive materials.--

Please replace the paragraph beginning at page 11, line 24, with the following rewritten paragraph:

--In an alternate embodiment, stay-in-place form 100 is formed using a mandrel, as illustrated in Fig. 14. In such an embodiment, mandrel 1401 serves as a core around which liner

103 is wrapped, as illustrated in Fig. 14. Composite reinforcement layer 107 impregnated with the resin is then continuously wrapped around liner 103 until a desired thickness is obtained, as illustrated in Figs. 12G and 12H. Once the fibers are cured, liner 103 and the hardened shell formed from composite reinforcement layer 107 are slipped off mandrel 1401. In either embodiment, the resulting structure is stay-in-place form 100.--

**IN THE CLAIMS:**

Please cancel claims 1-24 without prejudice.

**IN THE DRAWINGS:**

Please replace the 11 pages of drawings with the attached 9 pages of formal drawings.

**REMARKS**

This is a divisional application of application serial number 09/330,643 filed on June 11, 1999. Claims 1 through 24 have been cancelled.

Consideration of the present application, as preliminarily amended, is respectfully requested.

Please address all future communications regarding this application to:

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GRAY CARY WARE & FREIDENRICH LLP  
1755 Embarcadero Road  
Palo Alto, CA 94303-3340

Please direct all telephone calls to Edward B. Weller at (650) 833-2436

Attached hereto is a marked up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made".

Please charge any additional fees, including any fees necessary for extensions of time, or credit overpayment to Deposit Account No. **07-1896, referencing 2102455-900400.**

Dated: August 2, 2001

GRAY CARY WARE & FREIDENRICH LLP

By Ed B Weller  
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Reg. No. 37,468

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**Version with Markings to Show Changes Made**

**In the Specification:**

Following the title but prior to the first heading on page 1, insert the following heading and paragraph:

**CROSS REFERENCE TO RELATED APPLICATIONS**

This application is a divisional of and claims the benefit of U.S. Application No. 09/330,643, filed June 11, 1999, the disclosure of which is incorporated herein by reference.

Paragraph beginning at line 24 of page 4 has been amended as follows:

Composite shell 101 is formed of a resin-impregnated composite reinforcement layer 107, as illustrated in Fig. 1. Composite reinforcement layer [300] 107 is in direct contact with the outer surface of liner 103 and may be made of a single layer of fabric, although typically reinforcement layer 107 is made up of multiple layers of fabric. In the exemplary embodiment illustrated in Fig. 1, composite reinforcement layer 107 is made of seven fabric layers 109-115. Each of fabric layers 109-115 has first and second parallel selvages. For example, the first and second selvages for fabric layer 109 are shown at 109A and 109B, respectively. The first and second selvages for fabric layer 110 are shown at 110A and 110B, respectively. In an exemplary embodiment, the width of the fabric between the selvages may be from twelve to one hundred inches wide. Fabric layers 109-115 may include a single fabric layer or they may be laminates made up of two or more layers of fabric.

Paragraph beginning at line 16 of page 7 has been amended as follows:

Liner 103 is received to the inner wall surface of hollow composite shell 101. A perspective view of liner 103 is illustrated in Fig. 7. As shown, liner 103 is flexible so that it will conform to the inner wall surface of composite shell 101 regardless of the shape of the shell 101. Referring again to Fig. 2, liner 103 is formed of a water-resistant and impermeable material to protect concrete core 205 from moisture and corrosive materials,

as well as to protect the composite shell 101 from the alkalinity in concrete core 205. Liner 103 can be fabricated from plastic or rubber materials such as polystyrene, vinyl, polyethylene, chlorosulfonated polyethylene, [neoprene] such as HYPALON, synthetic rubber, such as NEOPRENE, EPDM (ethylene-propylene-diene terpolymer), rubber, or other resistive materials.

Paragraph beginning at line 24 of page 11 has been amended as follows:

In an alternate embodiment, stay-in-place form 100 is formed using a mandrel, as illustrated in Fig. [14A] 14. In such an embodiment, mandrel 1401 serves as a core around which liner 103 is wrapped, as illustrated in Fig. [14A] 14. Composite reinforcement layer 107 impregnated with the resin is then continuously wrapped around liner 103 until a desired thickness is obtained, as illustrated in Figs. 12G and 12H. Once the fibers are cured, liner 103 and the hardened shell formed from composite reinforcement layer 107 are slipped off mandrel 1401. In either embodiment, the resulting structure is stay-in-place form 100.

**In the Claims:**

Claims 1 through 24 have been canceled.

**In the Drawings:**

Nine (9) pages of formal drawings are being submitted.